



To assist design professionals, basic Florida Fire Prevention Code information to consider prior to submittal of plans for review is listed below. Items specific to Lakeland are in **bold, red print**.

The State of Florida adopted the 7th edition of the Florida Fire Prevention Code on December 31, 2020. This new edition includes Florida Specific NFPA 1 and 101, 2018 editions. Please cite and utilize the new code.

### Fire Department Access Roads

Approved fire department access roads shall be provided for every facility, building, or portion of a building hereafter constructed or relocated. (1:18.2.3.1.1)

A fire department access road shall extend to within 50 ft. (15 m) of at least one exterior door that can be opened from the outside and that provides access to the interior of the building. (1:18.2.3.2.1)

Fire department access roads shall be provided such that any portion of the facility or any portion of an exterior wall of the first story of the building is located not more than 150 ft. (46 m) from fire department access roads as measured by an approved route around the exterior of the building or facility. (1:18.2.3.2.2) When buildings are protected with an approved automatic fire sprinkler system that is installed in accordance with NFPA 13, NFPA 13D, or NFPA 13R, the distance shall be permitted to be increased to 450 ft. (137 m). (1:18.2.3.2.2.1)

More than one fire department access road shall be provided when it is determined by the AHJ that access by a single road could be impaired by vehicle congestion, condition of terrain, climatic conditions, or other factors that could limit access. (1:18.2.3.3)

Required number of access routes for residential areas, 0-100=1, 101-600=2, >600=3. (1141:5.1.4.1)

Where multiple means of access are required, they shall be located as remotely from each as practical and acceptable to the AHJ. (1141:5.1.4.4)

Fire department access roads provided in accordance with 1:18.2.3 shall be provided at the start of a project and shall be maintained throughout construction. (1:16.1.4) Fire Department access roads shall be 20' wide and able to support **40** tons.

The AHJ shall have the authority to require fire department access be provided to gated subdivisions or developments through the use of an approved device or system. (1:18.2.2.2) **A key switch shall be installed on all gates that limit emergency access. The Lakeland Fire Department requires the 3503 Dual Knox Key Switch. The left side shall be keyed to "Lakeland Fire Dept" the other side will automatically be keyed to Polk County Fire Services for ambulance access.**





**Nothing has to be completed on the application for the ambulance access, it is automatic as long as you choose the Dual Knox Key Switch.**

Fire department access roads shall have an unobstructed width of not less than 20 ft. (6.1 m). (1:18.2.3.4.1.1)

Fire department access roads shall have an unobstructed vertical clearance of not less than 13 ft. 6 in. (4.1 m). (1:18.2.3.5.1.2)

The turning radius of a fire department access road shall be as approved by the AHJ. (1:18.2.3.5.3.1) **The City of Lakeland Fire Department requires the inside turning radius shall be a minimum of 25 feet and outside turning radius a minimum of 36 feet servicing buildings less than three (3) stories. For buildings three (3) stories or more, the inside turning radius shall be a minimum of 35 feet and the outside turning radius 50 feet.**

Turns in fire department access roads shall maintain the minimum road width. (1:18.2.3.5.1.1.1)

Dead-end fire department access roads in excess of 150 ft. (46 m) in length shall be provided with approved provisions for the fire apparatus to turn around. (1:18.2.3.5.4) **The City of Lakeland Fire Department accepts T-TURN, Y-TURN, and CUL-DE-SAC design to accommodate vehicles 35 feet in length for buildings less than three stories and 50 feet in length for buildings three or more stories.**

When a bridge is required to be used as part of a fire department access road, it shall be constructed and maintained in accordance with nationally recognized standards. (1:18.2.3.5.5.1) The bridge shall be designed for a live load sufficient to carry the imposed loads of fire apparatus. (1:18.2.3.5.5.2) **The City of Lakeland Fire Department imposed load of fire apparatus is 40 tons.** Vehicle load limits shall be posted at both entrances to bridges where required by the AHJ. (1:18.2.3.5.5.3)

The angle of approach and departure grade for any means of fire department access road shall not exceed 1 ft. drop in 20 ft. (0.3 m drop in 6 m) or the design limitations of the fire apparatus of the fire department and shall be subject to approval of the AHJ. (1:18.2.3.5.6.2)

Fire department access roads connecting to roadways shall be provided with curb cuts extending at least 2 ft. (0.61 m) beyond each edge of the fire lane. (1:18.2.3.5.3.3)

Fire lanes shall be marked with signs that are readily visible to the street with the wording, "NO PARKING FIRE LANE BY ORDER OF THE FIRE DEPARTMENT" or similar wording. Such signs shall be 12 inches by 18 inches with a white background and red letters and shall be a maximum of seven feet in height from the roadway to the



bottom part of the sign. The signs shall be within sight of the traffic flow and be a maximum of 60 feet apart. (1:18.2.3.6.3)

### **Water Supplies and Fire Hydrants**

An approved water supply capable of supplying the required fire flow for fire protection shall be provided to all premises upon which facilities, buildings, or portions of buildings are hereafter constructed or moved into the jurisdiction. The approved water supply shall be in accordance with Section 1:18.4. (1:18.3.1)

**The Lakeland Fire Department does not allow any other water supply other than the approved hydrant system.**

The distances specified in Section 1:18.5 shall be measured along fire department access roads in accordance with 1:18.2.3. (1:18.5.1.4)

Where fire department access roads are provided with median dividers incapable of being crossed by fire apparatus, or where fire department access roads have traffic counts of more than 30,000 vehicles per day, hydrants shall be placed on both side of the fire department access road on an alternating basis, and the distances specified by Section 18.5 shall be measured independently of the hydrants on the opposite side of the fire department access road. (1:18.5.1.5)

Fire hydrants shall be located not more than 12 ft. (3.7 m) from the fire department access road. (1:18.5.1.6)

Fire hydrants shall be provided for detached one- and two-family dwellings in accordance with both of the following:

- (1) The maximum distance to a fire hydrant from the closest point on the building shall not exceed **600 ft.** (183 m).
- (2) The maximum distance between fire hydrants shall not exceed **800 ft.** (244 m). (1:18.5.2)

Fire hydrants shall be provided for buildings other than detached one- and two-family dwellings in accordance with both of the following:

- (1) The maximum distance to a fire hydrant from the closest point on the building shall not exceed **400 ft.** (122 m).
- (2) The maximum distance between fire hydrants shall not exceed **500 ft.** (152 m) (1:18.5.3)

Where required by the AHJ, fire hydrants shall be color coded or otherwise marked with an approved system indicating the available flow capacity. **The Lakeland Fire Department requires the body of all private fire hydrants to be painted red with the bonnet painted the color that corresponds to the size of the service main that feeds the hydrant. (4" Red, 6" Yellow, 8" White, 10" or greater Blue)** (1:18.5.10.3)



Location of Fire Department Connections (FDC) shall be approved by the fire department. **An approved fire hydrant shall be within 100 feet of the FDC. The distance shall be measured along a roadway surface. Storz connections are not acceptable.** (City Ordinance 5703)

A water supply for fire protection shall be made available as soon as combustible material accumulates. (1:16.4.3.1.1)

There shall be no delay in the installation of fire protection equipment. (1:16.4.3.1.2)

Where underground water mains and hydrants are to be provided, they shall be installed, completed, and in service prior to commencing construction work on any structure. (1:16.4.3.1.3)

If automatic sprinkler protection is to be provided, the installation shall be placed in service as soon as practicable. (1:16.4.3.2.1)

### **New Construction**

The submitted plans shall meet the minimum requirements of FAC 61G15-32 Responsibility Rules of Professional Engineers Concerning the Design of Fire Protection Systems.

A water supply for fire protection shall be made available as soon as combustible material accumulates. (1:16.4.3.1.1) **The Lakeland Fire Department does not allow any other water supply other than the approved hydrant system.**

There shall be no delay in the installation of fire protection equipment. (1:16.4.3.1.2)

Where underground water mains and hydrants are to be provided, they shall be installed, completed, and in service prior to commencing construction work on any structure. (1:16.4.3.1.3)

**Water supply shall be available prior to beginning construction. City of Lakeland Water Engineering will not supply firewater until the line has been completely approved/accepted by all agencies. The Lakeland Fire Department will have a hold on the issuance of all permits until the water department releases fire line for use.**

If automatic sprinkler protection is to be provided, the installation shall be placed in service as soon as practicable. (1:16.4.3.2.1)

Fire department access roads provided in accordance with 1:18.2.3 shall be provided at the start of a project and shall be maintained throughout construction. (1:16.1.4) Fire Department access roads shall be 20' wide and able to support **40** tons.





### **Light-weight Truss**

Signage shall be affixed to all buildings with roof or floor trusses defined as “light-frame, truss-type construction” to comply with Florida State Statute [69A-60.0081](#).

### **Lock Boxes**

**Key lock box SHALL be installed prior to occupancy. The Lakeland Fire Department requires KNOX® brand lock boxes, which can be ordered directly from their website [www.knoxbox.com](http://www.knoxbox.com). Enter “Lakeland Fire Dept” when ordering for the Fire Department/Agency or location where product will be installed. Order a Knox Box 3200 series or larger, preferably with a hinged lid.**

**A key switch SHALL be installed on all gates that limit emergency access. The Lakeland Fire Department requires the Dual Knox Key Switch. The left side shall be keyed to “Lakeland Fire Dept” the other side will automatically be keyed to “Polk County Fire Svcs” for ambulance access.**

### **Radio Requirements:**

**Please address the Two-Way Radio Communication Enhancement Systems requirements from FFPC 1:11.10 by stating on the Life Safety Page of your documents the following:**

**“A test will be conducted at the end of construction by the AHJ to determine the radio signal strength for fire department communications. If the radio test is found to be deficient, an additional test shall be performed by a licensed contractor to determine signal strength. Documentation from the test will be provided to the AHJ and if system enhancements are required to meet the minimum radio signal strength, it is understood that a system is to be installed immediately in accordance with Chapter 24 of NFPA 72 and NFPA 1221 and will require separate permitting.”**

### **Systems**

**Separate permits SHALL be issued through eTRAKiT for the installation, modification, or removal of any fire or life safety system and/or fuel tank.**